

2. Heat-exchanging device according to Claim 1, characterized in that webs (12) extend continuously over the width (B) of substrate (1).

3. Heat-exchanging device according to Claim 1 or 2, characterized in that webs (12) are arranged directly in front of channels (4) in flow direction (10).

4. Heat-exchanging device according to one of Claims 1-3, characterized in that channels (4) have a rectangular shape with their longer side (5) oriented parallel to flow direction (10).

5. Heat-exchanging device according to one of Claims 1-4, characterized in that substrate (1) is placed via spacers (7) on an object (11) and in that the height (KH) of the spacers is greater than the height (RH) of webs (12).

6. Heat-exchanging device according to Claim 5, characterized in that the height (KH) of spacers (7) is less than the length (DL) of channels (4) in flow direction (10) and preferably less than 5 mm.

7. Heat-exchanging device according to Claim 5 or 6, characterized in that several spacers (7) are provided, each projecting between channels (4) from bottom side (2) of substrate (1) and extending over the entire length of substrate (1) to form longitudinal channels (8).

8. Heat-exchanging device according to one of Claims 5-7, characterized in that spacers (7) consist of thermally conductive material.

9. Heat-exchanging device according to one of Claims 1-8, characterized in that substrate (1) consists of thermally conductive material, especially of metal, or of an arbitrary material that is coated with thermally conductive material.

10. Heat-exchanging device according to one of Claims 1-9, characterized in that a guide plate (15) is arranged at the inflow side of substrate (1).

11. Heat-exchanging device according to one of Claims 1-10, characterized in that a cover plate (13) is arranged a distance away from top side (3) of substrate (1), the spacing (AP) of cover plate (13) from top side (3) of substrate (1) being at least twice the height (RH) of webs (12).

12. Heat-exchanging device according to Claim 11, characterized in that the side of cover plate (13) facing top side (3) of substrate (1) comprises obstacles to flow, in particular, webs (14) that correspond to webs (12) on the top side of substrate (1).

13. Heat-exchanging device according to one of Claims 1-12, characterized in that several heat-exchanging devices are modularly arranged side by side and/or one above the other and/or one behind the other.

14. Heat-exchanging device according to one of Claims 1-13, characterized by guide plates (20, 25) which are arranged such that a fluid stream (19) arriving perpendicular to flow